Ashish Thusoo

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Objective: Software Developer in the field of Relational Databases, OLAP Servers or Distributed Systems.

Education:

University of Wisconsin, Madison *August, 1996 - Present*
Graduate Student, Dept. of Computer Sciences

Indian Institute of Technology, Delhi *July, 1992 - June, 1996*
Bachelor of Technology, Computer Science & Engineering

Graduate Courses

- Introduction to Networks (CS640)
- Advanced Computer Architecture I (CS752)
- Topics in Databases (CS764)
- Advanced Algorithms (CS787)
- DBMS: Design & Implementation (CS564)
- Advanced Operating Systems (CS736)
- Data Models & Languages (CS784)
- Master's Project (CS790)

Experience:

Summer Intern
Chromatic Research Inc., Sunnyvale *June, 1997 - Aug., 1997*
Developed a gui on tcl/tk for Mpact Debugger and Simulator.

Teaching Assistant
University of Wisconsin, Madison *Aug., 1996 - Present*
Currently Teaching Assistant for Intoduction to Computer Architecture (CS552).
Teaching Assistant for introductory course on C++.

Software Engineer
Indian Institute of Technology, Delhi *June, 1996 - Aug., 1996*
Developed the front end of a CAD tool.

Summer Trainee
Dept. of Electronics, New Delhi *May, 1995 - July, 1995*
Developed a mail exchanger for networks running different mail protocols.

Projects:

Major Projects

Developing a Group Management Layer for Devise
University of Wisconsin, Madison
Currently developing a Group Management Layer to enable multicasting between clients and servers in Devise.

Enhancing Condor to Support Multi-task Jobs
University of Wisconsin, Madison
Implemented an Interface which enabled Condor Jobs to spawn taskson different machines within the Condor Pool.

Optimizer for Conversion of Object Oriented Queries into Relational Queries
University of Wisconsin, Madison
Implemented an Optimizer for ZOO Queries using common subexpression elimination and Randomized Query plan generators.

Implementation of the SPRINT Algorithm for Classification
University of Wisconsin, Madison
Implemented SPRINT which is a decision tree based, scalable classifier used in Data Mining.

Simulation of an ATM and AAL Layer on UDP sockets
University of Wisconsin, Madison
Involved extensive programming in Solaris threads.

Real Time Tracking Using Affine Structure
Indian Institute of Technology, Delhi
Designed and implemented a robust mechanism for tracking a moving object in real time, using its affine structure. Declared as the best software project at IIT, Delhi.

Design & Implementation of a Simple RISC Based Computer Using SSI Components
Indian Institute of Technology, Delhi
Acclaimed as one of the best entries in TRYST'95, an all India design competition.

Minor Projects

- Development of a DeskTop GUI using tcl/tk for Mpact Debugger and Simulator at Chromatic Research.
- Development of a mail gateway as part of Summer Training at ERNET labs, DoE.
- Development of a GUI for FINCAD on Windows 3.1 using Borland C++.
- Designed and implemented an encryption based security system for geographical objects, represented as lines and polygons.
- Implementation of the client and server ends of a Trivial File Transfer Protocol.
- Study of the behaviour of different cache organizations on various join algorithms.

Academic Honours:

- *Suresh Chandra Memorial Award* for best software B.Tech major project.
- *Merit Awards* for obtaining high GPAs at IIT, Delhi.
- *National Talent Search Scholarship* awarded by NCERT, India.
- *All India Science Search Scholarship* awarded by board of education, Delhi.
- *Merit Awards* in Delhi Association of Mathematics Teacher's National Mathematics Olympiad.

Computer Skills:

Machines:	***Operating Systems:***	***Programming Languages:***
SunSparc, HP-9000, DEC5000	MS-DOS, MS Windows, Win95	C/C++, Pascal, ML, Scheme, tcl/tk, HTML
PCx86, ICL-3980, DRS-600	SunOS/Solaris, Linux, HP-UX	COBOL, BASIC, Prolog, Assembly(x86)
	VME-SVSL	SQL, QBE